

IN THE CLAIMS:

- 1-2. (Canceled)
3. (Previously presented) An isolated nucleic acid molecule comprising the nucleotide sequence as set forth in SEQ ID NO:1.
4. (Previously presented) An isolated nucleic acid molecule comprising the nucleotide sequence as set forth in SEQ ID NO: 3.
5. (Previously presented) An isolated nucleic acid molecule comprising the nucleotide sequence as set forth in SEQ ID NO: 5.
6. (Currently amended) An isolated nucleic acid molecule ~~comprising~~consisting of the nucleotide sequence as set forth in SEQ ID NO: 7.
7. (Previously presented) An isolated nucleic acid molecule comprising the nucleotide sequence as set forth in SEQ ID NO: 9.
8. (Previously presented) An isolated nucleic acid molecule comprising the nucleotide sequence as set forth in SEQ ID NO: 14.
9. (Previously presented) An isolated nucleic acid molecule comprising the nucleotide sequence as set forth in SEQ ID NO: 16.
10. (Previously presented) An isolated nucleic acid molecule comprising the nucleotide sequence as set forth in SEQ ID NO: 18.
11. (Currently amended) An isolated nucleic acid molecule ~~comprising~~consisting of the nucleotide sequence as set forth in SEQ ID NO: 20.

12. (Currently amended) An isolated nucleic acid molecule ~~comprising~~consisting of the nucleotide sequence as set forth in SEQ ID NO: 22.

13. (Currently amended) An isolated nucleic acid molecule ~~comprising~~consisting of the nucleotide sequence as set forth in SEQ ID NO: 24.

14. (Currently amended) An isolated nucleic acid molecule ~~comprising a sequence of nucleotides encoding or complementary to a sequence~~ encoding the amino acid sequence as set forth in SEQ ID NO: 2, or the complement of said nucleic acid molecule.

15. (Currently amended) An isolated nucleic acid molecule ~~comprising a sequence of nucleotides encoding or complementary to a sequence~~ encoding the amino acid sequence as set forth in SEQ ID NO: 4, or the complement of said nucleic acid molecule.

16. (Currently amended) An isolated nucleic acid molecule ~~comprising a sequence of nucleotides encoding or complementary to a sequence~~ encoding the amino acid sequence as set forth in SEQ ID NO: 6, or the complement of said nucleic acid molecule.

17. (Currently amended) An isolated nucleic acid molecule ~~comprising a sequence of nucleotides encoding or complementary to a sequence~~ encoding the amino acid sequence as set forth in SEQ ID NO: 8, or the complement of said nucleic acid molecule.

18. (Currently amended) An isolated nucleic acid molecule ~~comprising a sequence of nucleotides encoding or complementary to a sequence~~ encoding the amino acid sequence as set forth in SEQ ID NO: 10 or SEQ ID NO:11 or SEQ ID NO:12 or SEQ ID NO:13, or the complement of said nucleic acid molecule.

19. (Currently amended) An isolated nucleic acid molecule ~~comprising a sequence of nucleotides encoding or complementary to a sequence~~ encoding the amino acid sequence as set forth in SEQ ID NO: 15, or the complement of said nucleic acid molecule.

20. (Currently amended) An isolated nucleic acid molecule ~~comprising a sequence of nucleotides encoding or complementary to a sequence~~ encoding the amino acid sequence as set forth in SEQ ID NO: 17, or the complement of said nucleic acid molecule.

21. (Currently amended) An isolated nucleic acid molecule ~~comprising a sequence of nucleotides encoding or complementary to a sequence~~ encoding the amino acid sequence as set forth in SEQ ID NO: 19, or the complement of said nucleic acid molecule.

22. (Currently amended) An isolated nucleic acid molecule ~~comprising a sequence of nucleotides encoding or complementary to a sequence~~ encoding the amino acid sequence as set forth in SEQ ID NO: 21, or the complement of said nucleic acid molecule.

23. (Currently amended) An isolated nucleic acid molecule ~~comprising a sequence of nucleotides encoding or complementary to a sequence~~ encoding the amino acid sequence as set forth in SEQ ID NO: 23, or the complement of said nucleic acid molecule.

24. (Currently amended) An isolated nucleic acid molecule ~~comprising a sequence of nucleotides encoding or complementary to a sequence~~ encoding the amino acid sequence as set forth in SEQ ID NO: 25, or the complement of said nucleic acid molecule.

25. (Canceled)

26. (Currently amended) A ~~genetic~~DNA construct capable of reducing expression of an endogenous gene encoding a flavonoid 3'-hydroxylase in a plant, said ~~genetic~~DNA construct comprising a nucleotide sequence selected from the group consisting of:

- (i) a nucleotide sequence encoding an amino acid sequence selected from the group consisting of SEQ ID NO:2, SEQ ID NO: 4, SEQ ID NO: 6, ~~SEQ ID NO: 8, SEQ ID NO: 10, SEQ ID NO: 11, SEQ ID NO: 12, SEQ ID NO: 13, SEQ ID NO: 15, SEQ ID NO: 17, and SEQ ID NO: 19, SEQ ID NO: 21, SEQ ID NO: 23, and SEQ ID NO: 25;~~ and

- (ii) a nucleotide sequence selected from the group consisting of SEQ ID NO: 1, SEQ ID NO: 3, SEQ ID NO: 5, ~~SEQ ID NO: 7~~, SEQ ID NO: 14, SEQ ID NO: 16, SEQ ID NO: 18, ~~SEQ ID NO: 20, SEQ ID NO: 22 or SEQ ID NO: 24~~, and ~~the coding region in~~nucleotides 1478 to 3897 of SEQ ID NO: 9.

27. (Currently amended) A method for producing a transgenic plant which synthesizes a flavonoid 3'-hydroxylase, said method comprising stably transforming a cell of a plant with the nucleic acid molecule according to any one of claims ~~3-24 under conditions wherein said nucleic acid molecule is expressed~~, 3-5, 7-10, and 15-21 to produce a transformed cell, regenerating a transgenic plant from the transformed cell, and growing said transgenic plant ~~for a time and under conditions~~ wherein the nucleic acid molecule is expressed.

28-29. (Canceled)

30. (Previously presented) The method according to claim 27 wherein said plant is selected from the group consisting of petunia, carnation, chrysanthemum, rose, snapdragon, tobacco, cornflower, pelargonium, lisianthus, gerbera, apple, iris, lily, African violet and morning glory.

31-32. (Canceled)

33. (Currently amended) A transgenic plant having tissue exhibiting altered colour, said transgenic plant comprising a nucleic acid molecule ~~which comprises a sequence of nucleotides~~ selected from the group consisting of:

- (i) a nucleotide sequence encoding an amino acid sequence selected from the group consisting of SEQ ID NO:2, SEQ ID NO: 4, SEQ ID NO: 6, ~~SEQ ID NO: 8, SEQ ID NO: 10, SEQ ID NO: 11, SEQ ID NO: 12, SEQ ID NO: 13~~, SEQ ID NO: 15, SEQ ID NO: 17, and SEQ ID NO: 19, ~~SEQ ID NO: 21, SEQ ID NO: 23, or SEQ ID NO: 25~~; and
- (ii) a nucleotide sequence selected from the group consisting of SEQ ID NO: 1, SEQ ID NO: 3, SEQ ID NO: 5, ~~SEQ ID NO: 7~~, SEQ ID NO: 14, SEQ ID NO: 16, SEQ

ID NO: 18, ~~SEQ ID NO: 20, SEQ ID NO: 22 or SEQ ID NO: 24,~~ and ~~the coding region in nucleotides 1478 to 3897 of~~ SEQ ID NO: 9.

34. (Currently amended) ~~The~~A cut flower from the transgenic plant according to claim 33.

35. (Currently amended) ~~The~~A seed from the transgenic plant according to claim 33.

36. (Currently amended) ~~The~~A fruit from the transgenic plant according to claim 33.

37. (Currently amended) ~~The~~A leaf from the transgenic plant according to claim 33.

38-39. (Canceled)